

Search for patents that relate to PTC use in ink jet printers

L6 ANSWER 1 OF 1 JAPIO COPYRIGHT 1999 JPO and Japio  
 ACCESSION NUMBER: 92-345852 JAPIO  
 TITLE: PIEZOELECTRIC ELEMENT FOR PULSE-DROP BONDER  
 INVENTOR: SUZUKI MASAHICO; TAKAHASHI YOSHIKAZU; SUGAWARA HIROTO  
 PATENT ASSIGNEE(S): BROTHER IND LTD, JP (CO 000526)  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 04345852A	19921201	Heisei	(5)	B41J002-045

APPLICATION INFORMATION

STN FORMAT: JP 91-118529 19910523  
 ORIGINAL: JP03118529 Heisei  
 SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,  
 Section: M, Sect. No. 1399, Vol. 17, No. 2, P. 103  
 (19930420)

INT. PATENT CLASSIF.:

MAIN: (5) B41J002-045  
 SECONDARY: (5) B41J002-055; (5) H01L041-09  
 CLASSIFICATION: 29.4 PRECISION INSTRUMENTS - Business machine  
 42.2 ELECTRON - Solid state component  
 CONTROLLED TERM: R005 COMMON - Piezoelectric ferroelectric  
 R105 INFORMATION PROCESSING - Ink jet printer

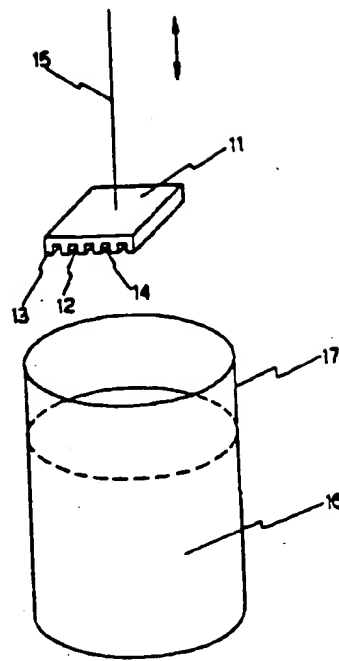
ABSTRACT:

PURPOSE: To provide the constitution of a piezoelectric element for maximally utilizing the piezoelectric characteristics of the piezoelectric electric element for an ink-jet printer head in a shape having the walls of a plurality of piezoelectric materials which will be shear deformed by applied voltage, ink flow paths formed among the walls of said piezoelectric materials and a plurality of ink grooves operated as pressure chambers.

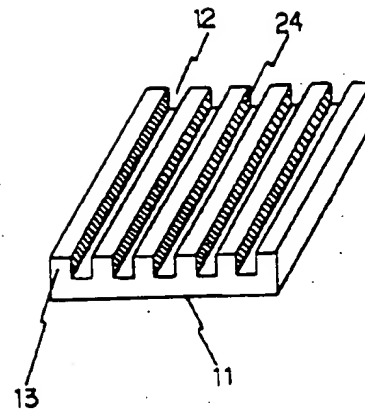
CONSTITUTION: An electric field of 2.5kV/mm is applied in the thickness direction of a piezoelectric element 11 while flexible electrodes 42a, 42b are brought into contact with the top face of the cover plate 52 of a pulse-drop bonder and the underside of the piezoelectric element 11 and pushed lightly. The re-polarization treatment is conducted for 10min in an oven at 100.degree.C. The driving electrodes of a barium titanate group PTC thermistor material formed on the side faces of the grooves of the piezoelectric element 11 work as insulators in the re-polarization treatment, thus allowing excellent re-polarization treatment.

JP 04345852 A1

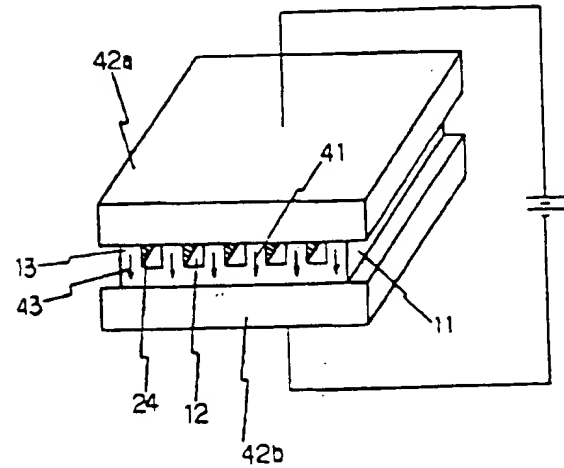
【図 1】



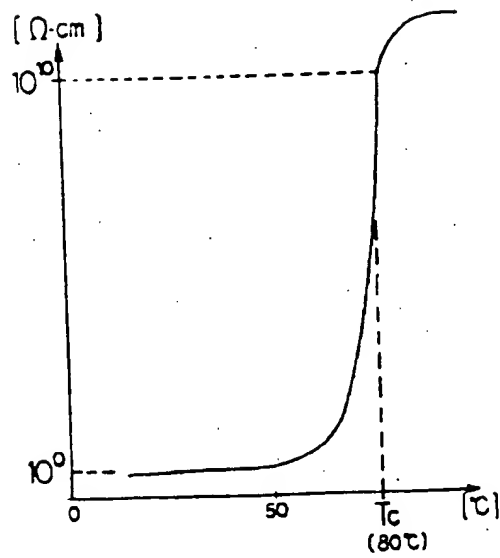
【図 2】



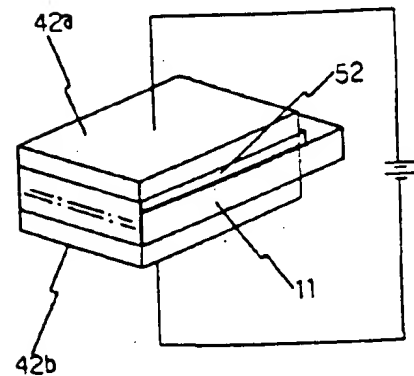
【図 4】



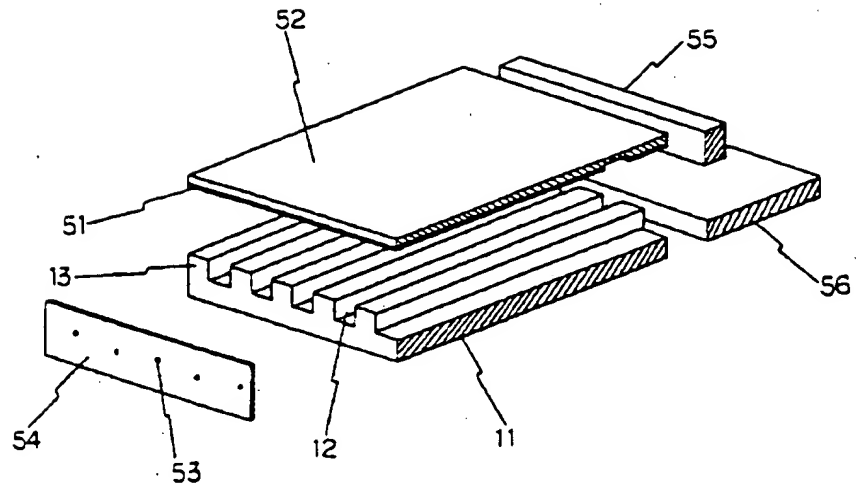
【図 3】



【図 6】



【図5】



【図7】

